

New Technology Implementation Grant Program

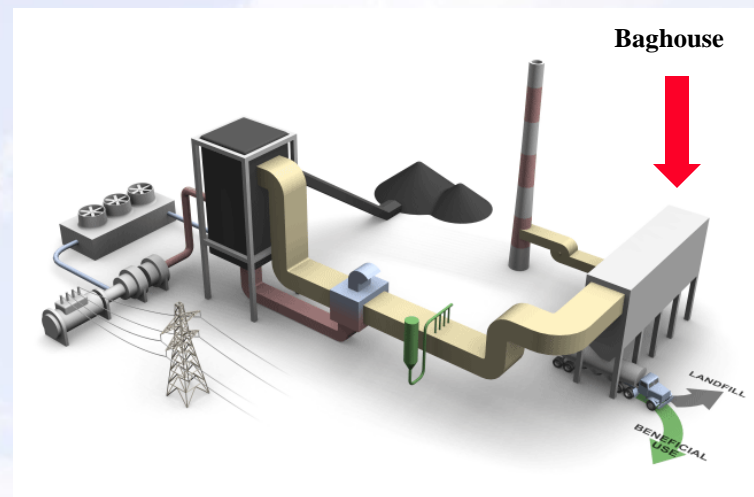
NTIG Applicant Workshop





NTIG Purpose

The primary purpose of the NTIG program is to offset the incremental cost of emissions reductions of pollutants from facilities and other stationary sources in the State of Texas.



Schematic of a Baghouse



NTIG Objectives



SO₂ Scrubbers installed at
power plant in Texas

- Facilitate the implementation of new technologies to reduce emissions from facilities and other stationary sources in this state.
- Help Texas become a leader in new technologies that can solve the state's environmental challenges while creating new business and industry in the state.
- Improve the quality of air in this state in order to meet standards established under the Federal Clean Air Act.



NTIG Project Categories

- Advanced clean energy
- New technology
- Electricity storage



Advanced Clean Energy

Definition:

Advanced Clean Energy Projects, as defined by Section 382.003 (Texas Health and Safety Code)



Power Plant with carbon capture and other advanced pollution controls in Australia



Advanced Clean Energy

(continued)

Emissions reductions requirements:

- **99%** or greater reduction of **sulfur dioxide (SO₂)** emissions on an annual basis **OR**, if the project is designed for the use of feedstock substantially all of which is sub-bituminous coal, an emission rate of **0.04 lbs SO₂ or less** per million British thermal units (MBtu) as determined by a **30-day average**;
- **95%** or greater reduction of **mercury (Hg)** emissions on an **annual basis**;
- an **annual average nitrogen oxides (NO_x)** emission rate of **0.05 lbs or less** per MBtu; **OR**, if the project uses gasification technology, **0.034 lbs or less** per MBtu;
- an **annual average** emission rate for **filterable particulate matter (PM)** of **0.015 lbs or less** per MBtu; **AND**
- capture not less than **50%** of the **carbon dioxide (CO₂)**.



Advanced Clean Energy

(continued)

Applicant must:

- be the owner or licensed operator of the facility located in the State of Texas or have received written approval from the NTIG program to apply for a grant; and
- use the program-designated baseline example for all emission reduction calculations, if the facility is new.

Project must:

- involve the use of coal, biomass, petroleum coke, solid waste, or fuel cells that use derived hydrogen; and
- meet the minimum emissions reductions requirements of the previous slide.

TCEQ must have received:

- on or after January 1, 2008, and before January 1, 2020, an application for a permit, or for an authorization to use a standard permit, for the facility in this application.

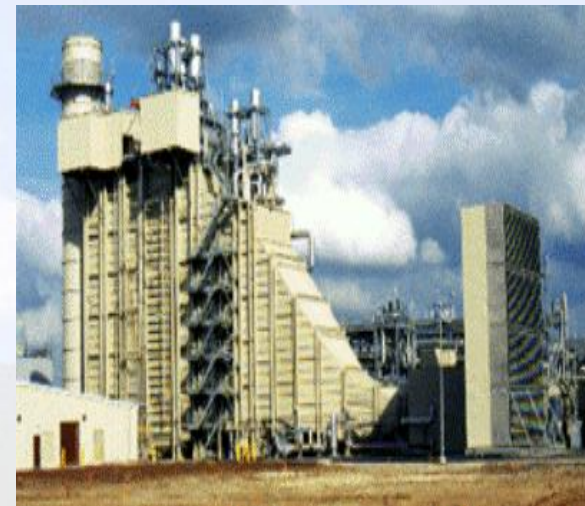


New Technology

Definition:

New Technology Projects that reduce emissions of regulated pollutants from point sources and involve capital expenditures that exceed \$500 million

Power Plant in Cleburne,
Texas





New Technology

(continued)

Applicant must:

- be the owner or licensed operator of a facility located in the State of Texas or have received written approval from the NTIG program to apply for a grant.

Project must:

- involve capital expenditures exceeding \$500 million; and
- reduce emissions of regulated pollutants from point sources.

Regulated pollutants include but are not limited to:

- Criteria pollutants;
- Hazardous air pollutants (HAPs);
- Any other pollutants regulated under the Federal Clean Air Act;
- Any other pollutants subject to requirements under TCEQ rules, regulations, permits, orders of the commission, or court orders.



Eligible Applicants

The owner of a facility located in the State of Texas may apply for a grant.

All applicants must provide evidence of operational control AND that the entity is in compliance with all applicable Texas laws.



*If the applicant is not the owner of the facility located in the State of Texas then the NTIG program may allow a person other than the owner to apply for and receive a grant.

Application Process



Prior to filling out application,
we recommend reviewing:

- NTIG Guidelines
- Request for Grant Applications

information available at terpgrants.org



Application Submittal

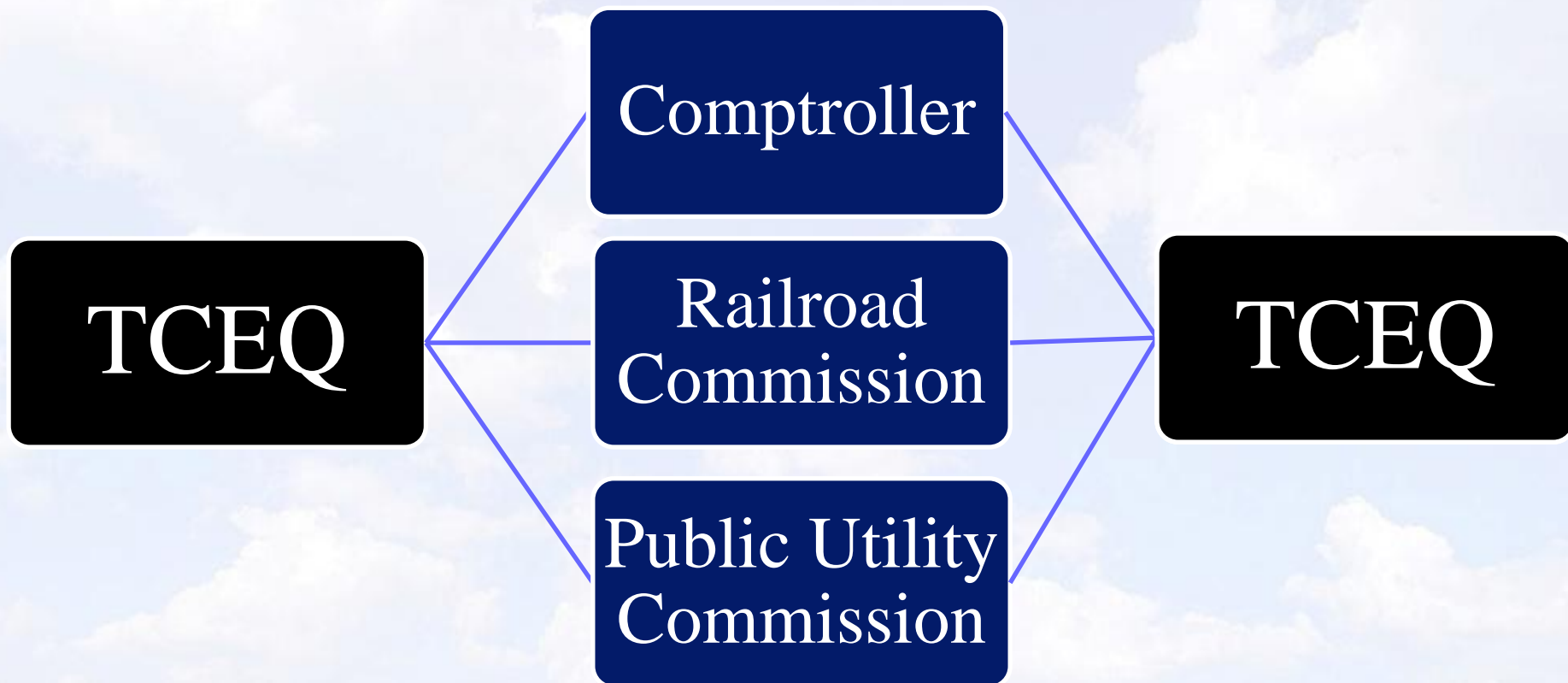
Be sure to submit:

- 1 signed paper copy of all forms
- 1 electronic copy
- Labeled and separate confidential information





Application Review





State Agency Duties



The Texas Comptroller of Public Accounts

- financial stability of the applicant
- the economic benefits and job creation potential associated with the project



The Public Utility Commission of Texas

- reliability of the proposed technology
- the feasibility and cost-effectiveness of electric transmission associated with the project



The Railroad Commission of Texas

- the availability and cost of the fuel involved with the project



Applications

Provide clear and extensive details about:

- Emissions Reductions Capability
- Testing Protocols (if applicable)
- Activities Planned
- Technical Merits of Technology
- Implementation Plan



Applications

(continued)

Avoiding application rejection:

- Matching funds (minimum 50%)
- Applicant is the owner of facility or provides written authorization from NTIG to apply
- Timeline - work complete before 5/31/2013
- Meets category's requirements





Applications

(continued)

Strengthening applications:

- Technical support for all claims
- Clear decision points in scope-of-work & timeline
- Distinction between implementation and operation/maintenance costs
- Feasible implementation plan





Implementation



In Implementation Plan,
please describe:

- Technology or technologies to be implemented
- Ability of applicant to operate/maintain technology beyond contract
- Timelines
- Cost effectiveness
- Partnerships



Confidential Information

- MUST be submitted separately
 - Separate envelope
 - Every page marked:
“Confidential/Proprietary: inform applicant & Seek AG opinion before releasing”
 - DO NOT submit electronically
- Supporting information only





Funding



- No maximum award amount
- All funds awarded in Fiscal Year 2011 must be used by May 2013
- Matching funds reported
- NTIG Grants adhere to Uniform Grants Management Standards (UGMS)



Contract

Shell contract on Web site – Please Review!

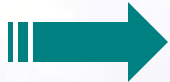
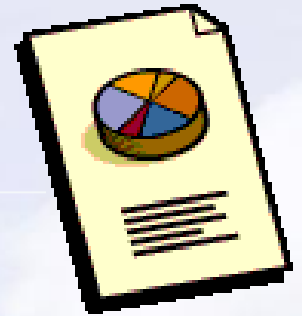
TCEQ Will Not Modify Terms

Notable Terms:

- Reporting requirements
 - Status reports
 - Financial reporting
- UGMS & eligible expenses
- Intellectual property language



Reporting



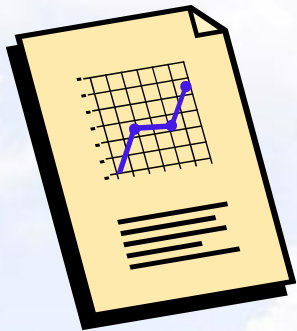
1. During Project

- Quarterly Status
- Monthly Financial



2. Wrap Up

- Final Status
- Final Financial



3. Follow Up

- Quarterly Disposition



NTIG Contact

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www.terpgrants.org

